

Company Focus

7 March 2008 | 8 pages

Biocon (BION.BO)

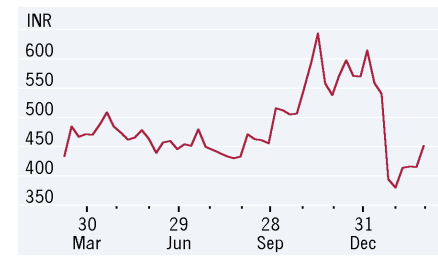
 Rating change
 Target price change
 Estimate change

Sell: No Pressing Reason to Buy

- Cutting TP to Rs436, Maintain Sell** — as we cut our FY09-10E earnings estimates by 13-17% & raise our risk rating to Medium as we expect medium term challenges to persist despite the progress on longer term growth & R&D initiatives. Biocon's high exposure to the appreciating rupee & pressure on capital efficiency remain a worry.
- Long-term initiatives on course** — Biocon continues to build growth drivers & diversify its business. Its oral insulin molecule (IN-505) is set to begin P-I trials in Sweden & P-II trials (India & Sweden) shortly. Early signs on Biomab are encouraging (run rate of cRs200m). It also intends to front end in overseas markets inorganically, which is a positive, albeit challenging, step in our view.
- Timelines are uncertain** — We believe that the visibility on these growth drivers, especially on the timelines, is still low. The best case launch scenario for a biosimilar in EU is end CY09/CY10, in our view. The US is further behind & we believe it is unlikely that a regulatory pathway will be finalized before CY10. In the interim, we expect continued pressure on its core business profitability.
- Potential catalysts** — a) possible listing of Syngene by FY09 end; b) outlicensing deals for oral insulin & T-1H over next 12 months; c) overseas acquisitions in research services & front ends in target markets. On the other hand, we expect consensus earnings estimates for FY09 & FY10 to come down over the year and act as a negative overhang on the stock.

| | |
|------------------------------|-------------|
| Sell/Medium Risk | 3M |
| <i>from Sell/Low Risk</i> | |
| Price (05 Mar 08) | Rs428.15 |
| Target price | Rs436.00 |
| <i>from Rs501.00</i> | |
| Expected share price return | 1.8% |
| Expected dividend yield | 0.8% |
| Expected total return | 2.6% |
| Market Cap | Rs42,815M |
| | US\$1,065M |

Price Performance (RIC: BION.BO, BB: BIOS IN)



Statistical Abstract

| Year to | Net Profit | Diluted EPS | EPS growth | P/E | P/B | ROE | Yield |
|---------|------------|-------------|------------|------|-----|------|-------|
| 31 Mar | (RsM) | (Rs) | (%) | (x) | (x) | (%) | (%) |
| 2006A | 1,778 | 17.78 | -9.7 | 24.1 | 4.8 | 21.8 | 0.6 |
| 2007A | 2,003 | 20.03 | 12.6 | 21.4 | 4.0 | 20.5 | 0.7 |
| 2008E | 2,181 | 21.81 | 8.9 | 19.6 | 2.9 | 17.0 | 0.8 |
| 2009E | 2,562 | 25.62 | 17.5 | 16.7 | 2.5 | 15.9 | 0.9 |
| 2010E | 3,033 | 30.33 | 18.4 | 14.1 | 2.1 | 16.3 | 1.1 |

Source: Powered by dataCentral

Prashant Nair, CFA¹

 +91-22-6631-9855
 prashant.nair@citi.com

Chirag Dagli¹

 +91-22-6631-9874
 chirag.dagli@citi.com

Akshay Rai¹

akshay.rai@citi.com

See Appendix A-1 for Analyst Certification and important disclosures.

Citi Investment Research is a division of Citigroup Global Markets Inc. (the "Firm"), which does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the Firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. Non-US research analysts who have prepared this report are not registered/qualified as research analysts with the NYSE and/or NASD. Such research analysts may not be associated persons of the member organization and therefore may not be subject to the NYSE Rule 472 and NASD Rule 2711 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account.

¹Citigroup Global Markets India Private Limited

| Fiscal year end 31-Mar | 2006 | 2007 | 2008E | 2009E | 2010E |
|--|---------------|---------------|---------------|---------------|---------------|
| Valuation Ratios | | | | | |
| P/E adjusted (x) | 24.1 | 21.4 | 19.6 | 16.7 | 14.1 |
| EV/EBITDA adjusted (x) | 18.2 | 15.4 | 14.6 | 11.5 | 9.0 |
| P/BV (x) | 4.8 | 4.0 | 2.9 | 2.5 | 2.1 |
| Dividend yield (%) | 0.6 | 0.7 | 0.8 | 0.9 | 1.1 |
| Per Share Data (Rs) | | | | | |
| EPS adjusted | 17.78 | 20.03 | 21.81 | 25.62 | 30.33 |
| EPS reported | 17.78 | 20.03 | 46.51 | 27.20 | 31.91 |
| BVPS | 88.81 | 106.86 | 149.67 | 172.52 | 199.28 |
| DPS | 2.50 | 3.00 | 3.27 | 3.84 | 4.55 |
| Profit & Loss (RsM) | | | | | |
| Net sales | 7,919 | 9,857 | 10,654 | 12,956 | 15,656 |
| Operating expenses | -5,889 | -7,688 | -8,647 | -10,454 | -12,415 |
| EBIT | 2,030 | 2,169 | 2,007 | 2,502 | 3,242 |
| Net interest expense | -18 | -98 | -104 | -83 | -35 |
| Non-operating/exceptionals | 51 | 38 | 371 | 385 | 423 |
| Pre-tax profit | 2,064 | 2,110 | 2,274 | 2,804 | 3,630 |
| Tax | -306 | -169 | -136 | -168 | -454 |
| Extraord./Min.Int./Pref.div. | 20 | 62 | 2,513 | 83 | 14 |
| Reported net income | 1,778 | 2,003 | 4,651 | 2,720 | 3,191 |
| Adjusted earnings | 1,778 | 2,003 | 2,181 | 2,562 | 3,033 |
| Adjusted EBITDA | 2,326 | 2,835 | 2,947 | 3,598 | 4,493 |
| Growth Rates (%) | | | | | |
| Sales | 11.2 | 24.5 | 8.1 | 21.6 | 20.8 |
| EBIT adjusted | 1.1 | 6.9 | -7.5 | 24.7 | 29.6 |
| EBITDA adjusted | 4.2 | 21.9 | 3.9 | 22.1 | 24.9 |
| EPS adjusted | -9.7 | 12.6 | 8.9 | 17.5 | 18.4 |
| Cash Flow (RsM) | | | | | |
| Operating cash flow | 769 | 1,482 | 5,419 | 3,480 | 3,987 |
| Depreciation/amortization | 297 | 665 | 940 | 1,096 | 1,251 |
| Net working capital | -1,265 | -1,281 | -232 | -493 | -633 |
| Investing cash flow | -888 | -1,991 | -5,010 | -2,650 | -2,600 |
| Capital expenditure | -2,284 | -1,905 | -2,750 | -2,500 | -1,800 |
| Acquisitions/disposals | 0 | 0 | 0 | 0 | 0 |
| Financing cash flow | -227 | 515 | -638 | -885 | -1,664 |
| Borrowings | 0 | 800 | -268 | -450 | -1,150 |
| Dividends paid | -227 | -285 | -370 | -435 | -514 |
| Change in cash | -347 | 6 | -229 | -55 | -278 |
| Balance Sheet (RsM) | | | | | |
| Total assets | 12,874 | 15,744 | 19,931 | 22,525 | 25,119 |
| Cash & cash equivalent | 20 | 87 | 63 | 35 | 18 |
| Accounts receivable | 2,237 | 3,065 | 3,347 | 4,071 | 4,919 |
| Net fixed assets | 8,270 | 9,145 | 10,956 | 12,359 | 12,908 |
| Total liabilities | 3,960 | 5,065 | 5,016 | 5,250 | 5,025 |
| Accounts payable | 2,184 | 2,324 | 2,456 | 2,948 | 3,476 |
| Total Debt | 1,050 | 1,868 | 1,600 | 1,150 | 0 |
| Shareholders' funds | 8,913 | 10,678 | 14,915 | 17,274 | 20,094 |
| Profitability/Solvency Ratios (%) | | | | | |
| EBITDA margin adjusted | 29.4 | 28.8 | 27.7 | 27.8 | 28.7 |
| ROE adjusted | 21.8 | 20.5 | 17.0 | 15.9 | 16.3 |
| ROIC adjusted | 21.5 | 18.0 | 13.9 | 15.2 | 16.4 |
| Net debt to equity | 11.6 | 16.7 | 10.3 | 6.5 | -0.1 |
| Total debt to capital | 10.5 | 14.9 | 9.7 | 6.2 | 0.0 |

For further data queries on Citigroup's full coverage universe please contact CIR Data Services Asia Pacific at CitiResearchDataServices@citigroup.com or +852-2501-2791



No Pressing Reason to Buy

We maintain our Sell rating on Biocon with a 13% reduction in target price to Rs436/share as we cut earnings estimates by 13-17% over FY08-10E. We expect medium term challenges to persist for Biocon despite the progress on longer term growth & R&D initiatives. Biocon's high exposure to the appreciating rupee & pressure on capital efficiency remains a worry, which along with the higher risk premium in equity markets, lead us to raise our risk rating to Medium (from Low earlier).

Reducing Earnings, Target Price

We reduce our earnings estimates for Biocon by 13-17% over FY08-10E and cut our target price to Rs436/share. We continue to value Biocon at 17x 12 month forward earnings – a premium to other second tier generics stocks in our coverage – to account for any potential upside from its efforts in innovative R&D or listing of its research subsidiary.

Lowering earnings estimates by 13-17%

We lower our earnings estimates for Biocon by 13% and 17% for FY09 and FY10 respectively, primarily on the back of:

- We factor in lower growth rates in the research services business due to rupee appreciation. This is however partially offset by higher growth built in for insulin and Biomab
- We reduce our EBIDTA margins to reflect a flat to marginal positive trend (100bps improvement over FY08-10E) as against the 250bps improvement expected earlier. The lower margin assumptions are on the back of the lower growth rate assumed in the higher margin research services business
- Higher depreciation charges on the back of the aggressive capex being incurred – especially in Syngene

Figure 1. Earnings Revision

| YE March | 2009E | 2010E |
|-------------------|--------|--------|
| Revenues | | |
| New | 12,956 | 15,656 |
| Old | 13,159 | 15,194 |
| % Change | (1.5) | 3.0 |
| EBITDA | | |
| New | 3,598 | 4,493 |
| Old | 3,860 | 4,582 |
| % Change | (6.8) | (1.9) |
| Net Profit | | |
| New | 2,562 | 3,037 |
| Old | 2,945 | 3,643 |
| % Change | (13.0) | (16.6) |

Source: Citi Investment Research estimates

Cutting Target Price to Rs436/share

We cut our target price to Rs436/share on the back of our lower earnings estimates. We continue to value Biocon at 17x FY09E earnings, which is now at a premium to our valuation for most second & third line generics despite Biocon's tepid growth rates in order to account for any upside from its research initiatives and / or listing of Syngene.

Biocon

Company description

Biocon is an integrated biotechnology company encompassing all three critical stages of drug development – drug discovery, development, and manufacturing and commercialization of biopharmaceuticals and enzymes. With more than 25 years of expertise in fermentation technology, the company has built strong capabilities in high-growth segments like statins, immunosuppressants and anti-diabetes. While statins form the major part of its current business, Biocon is aggressively pursuing the biogenerics opportunity in regulated markets and is also making investments in drug discovery research to build a future pipeline.

Investment strategy

We have a Sell/Medium Risk rating on Biocon with a target price of Rs436 (Rs501 earlier) in view of the nascent nature of longer-term growth initiatives. Despite several initiatives being taken by the company to emerge as a biotechnology major, Biocon remains primarily an API player with high exposure to the statins segment. While initial expectations of high growth from the statins opportunity in Europe and the US have been belied owing to stiff competition and pricing pressure, there is still no clarity on when the biogenerics opportunity would open up in these markets. Unlike other Indian companies, Biocon still does not have the requisite breadth in its product portfolio to overcome the pressure on statins and delays in biogenerics launches. The setbacks on pravastatin and simvastatin in the US in CY06 reflect the high sensitivity of Biocon's earnings to a delayed launch and are an indication of the vulnerability of the company's business model. We believe a similar trend may emerge in case simvastatin prices decline significantly in the US and/or if ramp-up in some of its new products is slower than expected. Overall, we expect a 24% CAGR in net profit for Biocon over FY07-10E, even after factoring in the full impact of statin sales in the US market and aggressive ramp-up in research services as well as insulin and BIOMAB sales. Valuations appear expensive relative to the growth outlook and the vulnerability of earnings in the near to medium term.

Valuation

We value Biocon on a P/E basis given that its earnings profile is normalized and unlikely to change materially in the medium term. Our target price of Rs436 (v/s Rs501 earlier) is based on 17x March 09 earnings, which is at a premium to our target range for mid-sized generic pharma companies (such as Cadila, Orchid, Wockhardt) in order to account for any progress in the former's research initiatives and / or listing of Syngene. Biocon's earnings FY07-10E CAGR at 17% is among the lowest in our coverage universe; however, we still give it a multiple in-line with other mid-sized pharma companies to factor in any positive surprise from its partnership-based R&D initiatives and recent product launches. While earnings growth has turned positive in FY07, after a disappointing FY06, the higher vulnerability of Biocon's business model to pricing pressure and delayed product launches /scale-up leads us to refrain from assigning a higher multiple.

Risks

We rate Biocon Medium Risk (as against Low Risk earlier). The higher risk rating reflects the high vulnerability of the company's profitability to a strengthening rupee and the higher risk premium in equity markets. The main downside risks to our target price and estimates include: (1) continued erosion in prices of statins in Europe and the US; and (2) inability to deliver on promises to outlicense R&D molecules within the next 12 months. The main

upside risks to our target price and estimates include: (1) any upside from Biocon's R&D initiatives, which we have not incorporated into our estimates; (2) any significant value unlocking through efforts to list Syngene and (3) earlier than expected upside from biogenerics in regulated markets.

Appendix A-1

Analyst Certification

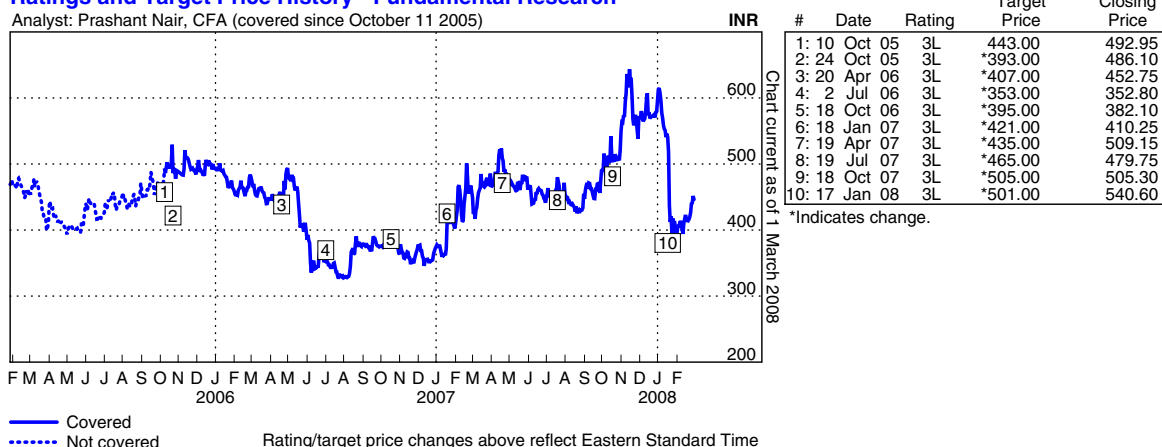
Each research analyst(s) principally responsible for the preparation and content of all or any identified portion of this research report hereby certifies that, with respect to each issuer or security or any identified portion of the report with respect to an issuer or security that the research analyst covers in this research report, all of the views expressed in this research report accurately reflect their personal views about those issuer(s) or securities. Each research analyst(s) also certify that no part of their compensation was, is, or will be, directly or indirectly, related to the specific recommendation(s) or view(s) expressed by that research analyst in this research report.

IMPORTANT DISCLOSURES

Biocon (BION.BO)

Ratings and Target Price History - Fundamental Research

Analyst: Prashant Nair, CFA (covered since October 11 2005)



Citigroup Global Markets Inc. or an affiliate received compensation for products and services other than investment banking services from Biocon in the past 12 months.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following company(ies) as clients, and the services provided were non-investment-banking, securities-related: Biocon.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following company(ies) as clients, and the services provided were non-investment-banking, non-securities-related: Biocon.

Analysts' compensation is determined based upon activities and services intended to benefit the investor clients of Citigroup Global Markets Inc. and its affiliates ("the Firm"). Like all Firm employees, analysts receive compensation that is impacted by overall firm profitability, which includes revenues from, among other business units, the Private Client Division, Institutional Sales and Trading, and Investment Banking.

For important disclosures (including copies of historical disclosures) regarding the companies that are the subject of this Citi Investment Research product ("the Product"), please contact Citi Investment Research, 388 Greenwich Street, 29th Floor, New York, NY, 10013, Attention: Legal/Compliance. In addition, the same important disclosures, with the exception of the Valuation and Risk assessments and historical disclosures, are contained on the Firm's disclosure website at www.citigroupgeo.com. Private Client Division clients should refer to www.smithbarney.com/research. Valuation and Risk assessments can be found in the text of the most recent research note/report regarding the subject company. Historical disclosures (for up to the past three years) will be provided upon request.

Citi Investment Research Ratings Distribution

Data current as of 31 December 2007

| | Buy | Hold | Sell |
|--|-----|------|------|
| Citi Investment Research Global Fundamental Coverage (3421) | 50% | 37% | 12% |
| % of companies in each rating category that are investment banking clients | 52% | 53% | 40% |

Guide to Fundamental Research Investment Ratings:

Citi Investment Research's stock recommendations include a risk rating and an investment rating.

Risk ratings, which take into account both price volatility and fundamental criteria, are: Low (L), Medium (M), High (H), and Speculative (S).

Investment ratings are a function of Citi Investment Research's expectation of total return (forecast price appreciation and dividend yield within the next 12 months) and risk rating.

For securities in emerging markets (Asia Pacific, Emerging Europe/Middle East/Africa, and Latin America), investment ratings are: Buy (1) (expected total return of 15% or more for Low-Risk stocks, 20% or more for Medium-Risk stocks, 30% or more for High-Risk stocks, and 40% or more for Speculative stocks); Hold (2) (5%-15% for Low-Risk stocks, 10%-20% for Medium-Risk stocks, 15%-30% for High-Risk stocks, and 20%-40% for Speculative stocks); and Sell (3) (5% or less for Low-Risk stocks, 10% or less for Medium-Risk stocks, 15% or less for High-Risk stocks, and 20% or less for Speculative stocks).

Investment ratings are determined by the ranges described above at the time of initiation of coverage, a change in investment and/or risk rating, or a change in target price (subject to limited management discretion). At other times, the expected total returns may fall outside of these ranges because of market price movements and/or other short-term volatility or trading patterns. Such interim deviations from specified ranges will be permitted but will become subject to review by Research Management. Your decision to buy or sell a security should be based upon your personal investment objectives and should be made only after evaluating the stock's expected performance and risk.

Guide to Corporate Bond Research Credit Opinions and Investment Ratings: Citi Investment Research's corporate bond research issuer publications include a fundamental credit opinion of Improving, Stable or Deteriorating and a complementary risk rating of Low (L), Medium (M), High (H) or Speculative (S) regarding the credit risk of the company featured in the report. The fundamental credit opinion reflects the CIR analyst's opinion of the direction of credit fundamentals of the issuer without respect to securities market vagaries. The fundamental credit opinion is not geared to, but should be viewed in the context of, debt ratings issued by major public debt ratings companies such as Moody's Investors Service, Standard and Poor's, and Fitch Ratings. CBR risk ratings are approximately equivalent to the following matrix: Low Risk -- Triple A to Low Double A; Low to Medium Risk -- High Single A through High Triple B; Medium to High Risk -- Mid Triple B through High Double B; High to Speculative Risk -- Mid Double B and Below. The risk rating element illustrates the analyst's opinion of the relative likelihood of loss of principal when a fixed income security issued by a company is held to maturity, based upon both fundamental and market risk factors. Certain reports published by Citi Investment Research will also include investment ratings on specific issues of companies under coverage which have been assigned fundamental credit opinions and risk ratings. Investment ratings are a function of Citi Investment Research's expectations for total return, relative return (relative to the performance of relevant Citi bond indices), and risk rating. These investment ratings are: Buy/Overweight -- the bond is expected to outperform the relevant Citigroup bond market sector index (Broad Investment Grade, High Yield Market or Emerging Market); Hold/Neutral Weight -- the bond is expected to perform in line with the relevant Citigroup bond market sector index; or Sell/Underweight -- the bond is expected to underperform the relevant Citigroup bond market sector index. Performance data for Citi bond indices are updated monthly, are available upon request and can also be viewed at <http://sd.ny.ssmb.com/> using the "Indexes" tab.

OTHER DISCLOSURES

The subject company's share price set out on the front page of this Product is quoted as at 05 March 2008 04:00 PM on the issuer's primary market.

For securities recommended in the Product in which the Firm is not a market maker, the Firm is a liquidity provider in the issuers' financial instruments and may act as principal in connection with such transactions. The Firm is a regular issuer of traded financial instruments linked to securities that may have been recommended in the Product. The Firm regularly trades in the securities of the subject company(ies) discussed in the Product. The Firm may engage in securities transactions in a manner inconsistent with the Product and, with respect to securities covered by the Product, will buy or sell from customers on a principal basis.

Securities recommended, offered, or sold by the Firm: (i) are not insured by the Federal Deposit Insurance Corporation; (ii) are not deposits or other obligations of any insured depository institution (including Citibank); and (iii) are subject to investment risks, including the possible loss of the principal amount invested. Although information has been obtained from and is based upon sources that the Firm believes to be reliable, we do not guarantee its accuracy and it may be incomplete and condensed. Note, however, that the Firm has taken all reasonable steps to determine the accuracy and completeness of the disclosures made in the Important Disclosures section of the Product. The Firm's research department has received assistance from the subject company(ies) referred to in this Product including, but not limited to, discussions with management of the subject company(ies). Firm policy prohibits research analysts from sending draft research to subject companies. However, it should be presumed that the author of the Product has had discussions with the subject company to ensure factual accuracy prior to publication. All opinions, projections and estimates constitute the judgment of the author as of the date of the Product and these, plus any other information contained in the Product, are subject to change without notice. Prices and availability of financial instruments also are subject to change without notice. Notwithstanding other departments within the Firm advising the companies discussed in this Product, information obtained in such role is not used in the preparation of the Product. Although Citi Investment Research does not set a predetermined frequency for publication, if the Product is a fundamental research report, it is the intention of Citi Investment Research to provide research coverage of the/those issuer(s) mentioned therein, including in response to news affecting this issuer, subject to applicable quiet periods and capacity constraints. The Product is for informational purposes only and is not intended as an offer or solicitation for the purchase or sale of a security. Any decision to purchase securities mentioned in the Product must take into account existing public information on such security or any registered prospectus.

Investing in non-U.S. securities, including ADRs, may entail certain risks. The securities of non-U.S. issuers may not be registered with, nor be subject to the reporting requirements of the U.S. Securities and Exchange Commission. There may be limited information available on foreign securities. Foreign companies are generally not subject to uniform audit and reporting standards, practices and requirements comparable to those in the U.S. Securities of some foreign companies may be less liquid and their prices more volatile than securities of comparable U.S. companies. In addition, exchange rate movements may have an adverse effect on the value of an investment in a foreign stock and its corresponding dividend payment for U.S. investors. Net dividends to ADR investors are estimated, using withholding tax rates conventions, deemed accurate, but investors are urged to consult their tax advisor for exact dividend computations. Investors who have received the Product from the Firm may be prohibited in certain states or other jurisdictions from purchasing securities mentioned in the Product from the Firm. Smith Barney clients can ask their Financial Advisor for additional details. Citigroup Global Markets Inc. takes responsibility for the Product in the United States. Any orders by US investors resulting from the information contained in the Product may be placed only through Citigroup Global Markets Inc.

The Citigroup legal entity that takes responsibility for the production of the Product is the legal entity which the first named author is employed by. The Product is made available in Australia to wholesale clients through Citigroup Global Markets Australia Pty Ltd. (ABN 64 003 114 832 and AFSL No. 240992) and to retail clients through Citi Smith Barney Pty Ltd. (ABN 19 009 145 555 and AFSL No. 240813), Participants of the ASX Group and regulated by the Australian Securities & Investments Commission. Citigroup Centre, 2 Park Street, Sydney, NSW 2000. The Product is made available in Australia to Private Banking wholesale clients through Citigroup Pty Limited (ABN 88 004 325 080 and AFSL 238098). Citigroup Pty Limited provides all financial product advice to Australian Private Banking wholesale clients through bankers and relationship managers. If there is any doubt about the suitability of investments held in Citigroup Private Bank accounts, investors should contact the Citigroup Private Bank in Australia. Citigroup companies may compensate affiliates and their representatives for providing products and services to clients. The Product is made available in Brazil by Citigroup Global Markets Brasil - CCTVM SA, which is regulated by CVM - Comissão de Valores Mobiliários, BACEN - Brazilian Central Bank, APIMEC - Associação Associação dos Analistas e Profissionais de Investimento do Mercado de Capitais and ANBID - Associação Nacional dos Bancos de Investimento. Av. Paulista, 1111 - 11º andar - CEP. 01311920 - São Paulo - SP. If the Product is being made available in certain provinces of Canada by Citigroup Global Markets (Canada) Inc. ("CGM Canada"), CGM Canada has approved the Product. Citigroup Place, 123 Front Street West, Suite 1100, Toronto, Ontario M5J 2M3. The Product is made available in France by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. 1-5 Rue Paul Cézanne, 8ème, Paris, France. The Product may not be distributed to private clients in Germany. The Product is distributed in Germany by Citigroup Global Markets Deutschland AG & Co. KGaA, which is regulated by Bundesanstalt fuer Finanzdienstleistungsaufsicht (BaFin). Frankfurt am Main, Reuterweg 16, 60323 Frankfurt am Main. If the Product is made available in Hong Kong by, or on behalf of, Citigroup Global Markets Asia Ltd., it is attributable to Citigroup Global Markets Asia Ltd., Citibank Tower, Citibank Plaza, 3 Garden Road, Hong Kong. Citigroup Global Markets Asia Ltd. is regulated by Hong Kong Securities and Futures Commission. If the Product is made available in Hong Kong by The Citigroup Private Bank to its clients, it is attributable to Citibank N.A., Citibank Tower, Citibank Plaza, 3 Garden Road, Hong Kong. The Citigroup Private Bank and Citibank N.A. is regulated by the Hong Kong Monetary Authority. The Product is made available in India by Citigroup Global Markets India Private Limited, which is regulated by Securities and Exchange Board of India. Bakhtawar, Nariman Point, Mumbai 400-021. The Product is made available in Indonesia through PT Citigroup Securities Indonesia. 5/F, Citibank Tower, Bapindo Plaza, Jl. Jend. Sudirman Kav. 54-55, Jakarta 12190. Neither this Product nor any copy hereof may be distributed in Indonesia or to any Indonesian citizens wherever they are domiciled or to Indonesian residents except in compliance with applicable capital market laws and regulations. This Product is

not an offer of securities in Indonesia. The securities referred to in this Product have not been registered with the Capital Market and Financial Institutions Supervisory Agency (BAPEPAM-LK) pursuant to relevant capital market laws and regulations, and may not be offered or sold within the territory of the Republic of Indonesia or to Indonesian citizens through a public offering or in circumstances which constitute an offer within the meaning of the Indonesian capital market laws and regulations. The Product is made available in Italy by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. Foro Buonaparte 16, Milan, 20121, Italy. If the Product was prepared by Citi Investment Research and distributed in Japan by Nikko Citigroup Limited ("NCL"), it is being so distributed under license. If the Product was prepared by NCL and distributed by Nikko Cordial Securities Inc. or Citigroup Global Markets Inc. it is being so distributed under license. NCL is regulated by Financial Services Agency, Securities and Exchange Surveillance Commission, Japan Securities Dealers Association, Tokyo Stock Exchange and Osaka Securities Exchange. Shin-Marunouchi Building, 1-5-1 Marunouchi, Chiyoda-ku, Tokyo 100-6520 Japan. In the event that an error is found in an NCL research report, a revised version will be posted on Citi Investment Research's Global Equities Online (GEO) website. If you have questions regarding GEO, please call (81 3) 6270-3019 for help. The Product is made available in Korea by Citigroup Global Markets Korea Securities Ltd., which is regulated by Financial Supervisory Commission and the Financial Supervisory Service. Hungkuk Life Insurance Building, 226 Shinmunno 1-GA, Jongno-Gu, Seoul, 110-061. The Product is made available in Malaysia by Citigroup Global Markets Malaysia Sdn Bhd, which is regulated by Malaysia Securities Commission. Menara Citibank, 165 Jalan Ampang, Kuala Lumpur, 50450. The Product is made available in Mexico by Acciones y Valores Banamex, S.A. De C. V., Casa de Bolsa, which is regulated by Comision Nacional Bancaria y de Valores. Reforma 398, Col. Juarez, 06600 Mexico, D.F. In New Zealand the Product is made available through Citigroup Global Markets New Zealand Ltd. (Company Number 604457), a Participant of the New Zealand Exchange Limited and regulated by the New Zealand Securities Commission. Level 19, Mobile on the Park, 157 Lambton Quay, Wellington. The Product is made available in Pakistan by Citibank N.A. Pakistan branch, which is regulated by the State Bank of Pakistan and Securities Exchange Commission, Pakistan. AWT Plaza, 1.1. Chundrigar Road, P.O. Box 4889, Karachi-74200. The Product is made available in Poland by Dom Maklerski Banku Handlowego SA an indirect subsidiary of Citigroup Inc., which is regulated by Komisja Papierów Wartościowych i Giełd. Bank Handlowy w Warszawie S.A. ul. Senatorska 16, 00-923 Warszawa. The Product is made available in the Russian Federation through ZAO Citibank, which is licensed to carry out banking activities in the Russian Federation in accordance with the general banking license issued by the Central Bank of the Russian Federation and brokerage activities in accordance with the license issued by the Federal Service for Financial Markets. Neither the Product nor any information contained in the Product shall be considered as advertising the securities mentioned in this report within the territory of the Russian Federation or outside the Russian Federation. The Product does not constitute an appraisal within the meaning of the Federal Law of the Russian Federation of 29 July 1998 No. 135-FZ (as amended) On Appraisal Activities in the Russian Federation. 8-10 Gasheka Street, 125047 Moscow. The Product is made available in Singapore through Citigroup Global Markets Singapore Pte. Ltd., a Capital Markets Services Licence holder, and regulated by Monetary Authority of Singapore. 1 Temasek Avenue, #39-02 Millenia Tower, Singapore 039192. The Product is made available by The Citigroup Private Bank in Singapore through Citibank, N.A., Singapore branch, a licensed bank in Singapore that is regulated by Monetary Authority of Singapore. Citigroup Global Markets (Pty) Ltd. is incorporated in the Republic of South Africa (company registration number 2000/025866/07) and its registered office is at 145 West Street, Sandton, 2196, Saxonwold. Citigroup Global Markets (Pty) Ltd. is regulated by JSE Securities Exchange South Africa, South African Reserve Bank and the Financial Services Board. The investments and services contained herein are not available to private customers in South Africa. The Product is made available in Spain by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. 29 Jose Ortega Y Gasset, 4th Floor, Madrid, 28006, Spain. The Product is made available in Taiwan through Citigroup Global Markets Inc. (Taipei Branch), which is regulated by Securities & Futures Bureau. No portion of the report may be reproduced or quoted in Taiwan by the press or any other person. No. 8 Manhattan Building, Hsin Yi Road, Section 5, Taipei 100, Taiwan. The Product is made available in Thailand through Citicorp Securities (Thailand) Ltd., which is regulated by the Securities and Exchange Commission of Thailand. 18/F, 22/F and 29/F, 82 North Sathorn Road, Silom, Bangrak, Bangkok 10500, Thailand. The Product is made available in U.A.E. by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. DIFC, Bldg 2, Level 7, PO Box 506560, Dubai, UAE. The Product is made available in United Kingdom by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. This material may relate to investments or services of a person outside of the UK or to other matters which are not regulated by the FSA and further details as to where this may be the case are available upon request in respect of this material. Citigroup Centre, Canada Square, Canary Wharf, London, E14 5LB. The Product is made available in United States by Citigroup Global Markets Inc, which is regulated by NASD, NYSE and the US Securities and Exchange Commission. 388 Greenwich Street, New York, NY 10013. Unless specified to the contrary, within EU Member States, the Product is made available by Citigroup Global Markets Limited, which is regulated by Financial Services Authority. Many European regulators require that a firm must establish, implement and make available a policy for managing conflicts of interest arising as a result of publication or distribution of investment research. The policy applicable to Citi Investment Research's Products can be found at www.citigroupgeo.com. Compensation of equity research analysts is determined by equity research management and Citigroup's senior management and is not linked to specific transactions or recommendations. The Product may have been distributed simultaneously, in multiple formats, to the Firm's worldwide institutional and retail customers. The Product is not to be construed as providing investment services in any jurisdiction where the provision of such services would not be permitted. Subject to the nature and contents of the Product, the investments described therein are subject to fluctuations in price and/or value and investors may get back less than originally invested. Certain high-volatility investments can be subject to sudden and large falls in value that could equal or exceed the amount invested. Certain investments contained in the Product may have tax implications for private customers whereby levels and basis of taxation may be subject to change. If in doubt, investors should seek advice from a tax adviser. The Product does not purport to identify the nature of the specific market or other risks associated with a particular transaction. Advice in the Product is general and should not be construed as personal advice given it has been prepared without taking account of the objectives, financial situation or needs of any particular investor. Accordingly, investors should, before acting on the advice, consider the appropriateness of the advice, having regard to their objectives, financial situation and needs. Prior to acquiring any financial product, it is the client's responsibility to obtain the relevant offer document for the product and consider it before making a decision as to whether to purchase the product.

© 2008 Citigroup Global Markets Inc. (© Nikko Citigroup Limited, if this Product was prepared by it). Citi Investment Research is a division and service mark of Citigroup Global Markets Inc. and its affiliates and is used and registered throughout the world. Citi and Citi with Arc Design are trademarks and service marks of Citigroup Inc and its affiliates and are used and registered throughout the world. Nikko is a registered trademark of Nikko Cordial Corporation. All rights reserved. Any unauthorized use, duplication, redistribution or disclosure is prohibited by law and will result in prosecution. The information contained in the Product is intended solely for the recipient and may not be further distributed by the recipient. The Firm accepts no liability whatsoever for the actions of third parties. The Product may provide the addresses of, or contain hyperlinks to, websites. Except to the extent to which the Product refers to website material of the Firm, the Firm has not reviewed the linked site. Equally, except to the extent to which the Product refers to website material of the Firm, the Firm takes no responsibility for, and makes no representations or warranties whatsoever as to, the data and information contained therein. Such address or hyperlink (including addresses or hyperlinks to website material of the Firm) is provided solely for your convenience and information and the content of the linked site does not in anyway form part of this document. Accessing such website or following such link through the Product or the website of the Firm shall be at your own risk and the Firm shall have no liability arising out of, or in connection with, any such referenced website.

ADDITIONAL INFORMATION IS AVAILABLE UPON REQUEST